

PORTNOY, N.D.; KONDRATOVICH, V.V.; RABKIN, D.M.; ZYDNIKOV, M.L.; BOVIN, A.I.;  
GENRIKHSIDORF, N.G.; OLESHEV, Yu.V.; SHASKIN, A.Ya.; KREMERMAN, P.L.;  
KHODZHAYEV, A.I.; PISAREVSKIY, M.S.

Automatic welding of aluminum alloy products instead of manual arc  
welding with a carbon electrode. Suggestion by N.D.Portnoi and others.  
Prom.energ.11 no.4:21-22 Ap '56. (MIRA 9:7)  
(Aluminum alloys--Welding)

**ZVONKOV, N.A.,** starshiy nauchnyy sotrudnik (Gor'kiy 9, ul. Krinova, d.18,kv.1)

Morphological characteristics of the changes during homoplasty  
with refrigeration-preserved bone; experimental research. Ortop.  
travm. i protez. 24 no.2:3-9 F'63. (MIRA 16:10)

1. Iz Gor'kovskogo instituta travmatologii i ortopedii (dir.  
dotsent M.G.Grigor'yev).  
(BONE GRAFTING)

ZVONKOV, N.A.

Results of frozen bone homoplasty in the treatment of pseudarthrosis,  
bone defects and ununited fractures. Khirurgiia 40 no.5:64-72  
My '64. (MIRA 18:2)

1. Gor'kovskiy nauchno-issledovatel'skiy institut travmatologii i  
ortopedii (dir.-dotsent M.G. Grigor'yev).

Side effects of penicillin. Vop. neirokhir. 21 no.3:50-52 My-Je '57.  
(MLPA 10:10)

1. Gor'kovskiy institut vosstanovitel'noy khirurgii, travmatologii  
i ortopedii.

(PENICILLIN, inj. eff.  
case reports)

ZVONKOV, N.A.

Use of radioactive indicators in studies on phosphorus metabolism  
in the bones following plastic surgery with frozen homologous  
grafts. Ortop., travm.i protea. 21 no.1:9-14 Ja '60.

(MIRA 13:12)

(BONE GRAFTING) (PHOSPHORUS METABOLISM)

Some comments on the therapy of obliterating endarteritis. Vest.  
Khir. 84 no.6:107-108 Je '60. (MIRA 13:12)  
(ARTERIES—DISEASES)

ZVONKOV, N.A., starshiy nauchnyy sotrudnik (Gor'kiy, 9, ul. Krinova, d.18)

Clinical and experimental homotransplantation of bones preserved  
by means of refrigeration. Ortop., travm. i protez. 22 no.4:16-22  
Ap '61. (MIRA 14:11)

1. Iz Gor'kovskogo nauchno-issledovatel'skogo instituta travma-  
tologii i ortopedii (dir. - dotsent M.G. Grigor'yev).  
(BONE GRAFTING)

ANTIBIOTICS

"On the Side-Effects of Penicillin," by N.A. Zvonkov, Gor'kiy Institute of Rehabilitation Surgery, Traumatology, and Orthopedics, Voprosy Neyrokhirurgii, No 3, May-June 1957, pp 50-52

The article concurs in the opinion of many scientists that the indiscriminate use of antibiotics produces the following side-effects: Urticaria, dermatitis, serum diseases, hematuria, high fever, thrombophlebitis and may also affect the central and peripheral nervous system.

The author himself observed complications in the central nervous system, which apparently is often very sensitive to antibiotics when introduced into the subarachnoid region.

While using penicillin prophylactically after an operation (replacing cranial defects with tantalum plate), he twice observed epileptic fits in a patient, which were directly caused by the use of penicillin. In two other cases, which he describes in detail, intralumbar administration of penicillin produced convulsions. And in yet another case, intracranial thrombosis was also attributed to penicillin by the author.



ZVONKOV, N.A., starshiy nauchnyy sotrudnik (Gor'kiy, 9, ul. Krinova, d.18, kv.1)

Some results of an experimental study and clinical observations  
in homoplasty with frozen bone. Nov.khir.arkh. no.6:63-69 N-D  
'58. (MIRA 12:3)

1. Gor'kovskiy nauchno-issledovatel'skiy institut ortopedii i trav-  
matologii (nauchnyy rukovoditel' - prof. I.L. TSimkhes).  
(BONE CRAFTING)

Important national economy problem. NTO 2 no.8:36 Ag '60.  
(MIRA 13:10)

1. Chlen-korrespondent AN SSSR.  
(Water resources development)

ZVONKOV, Vasilii Fedosovich

[Advances in industrial relations during the period of the large-scale building of communism] Sovershenstvovanie proizvodstvennykh otnoshenii v period razvernutoho stroitel'stva kommunizma. Leningrad, Ob-vo po raspr. polit. i nauchn. znanii RSFSR, Leningr. otd-nie, 1960. 57 p. (MIRA 14:8)

(Industrial management)

GRIGOROVSKIY, Vasilii Yefimovich; ZYONKOV, Vasilii Fedosovich; VASIL'YEV,  
A.V., red.; TIKHONOVA, I.M., tekhn.red.

[Development of production rates on collective farms] Razvitie  
proizvodstvennykh otnoshenii v kolkhosakh. Leningrad, Lenizdat,  
1959. 89 p. (MIRA 13:5)

(Collective farms)

SMIRNOV, Vasil'y Filippevich; ZVONKOV, V.F., nauchnyy red.; ARKHAROVA,  
V.G., red.; TIKHONOVA, I.M., tekhn.red.

[Our great concern; growth of the material well-being of the  
working class during the fifth five-year plan; based on data  
from Leningrad enterprises] Velikaia zabota; rost material'nogo  
blagosostoianiiia rabochego klassa v gody piatoi piatiletki (na  
materialakh leningradskikh predpriatii). - Lenizdat, 1958. 129 p.  
(MIRA 12:3)

(Russia--Economic conditions)

Издательство наук УССР, Киев, Институт электротехники имени академика В.О. Стрелова  
Техническое содействие спонсорам: в. 2 (интерпретация)  
Исследования в области (Исследования в области, № 2) Киев, Гос.  
изд-во техн. лит-ры Украины 338, 1959. 194 с. Архив не индексируется.  
3,000 экземпляры напечатаны.

Ed.: V. Garbuzova; Tech. Ed.: S. Mitrosvich.

**REMARK:** This book is intended for workers in the printing industry.

problems. The book contains a discussion of welding techniques and problems by groups of scientists and welders. Much attention is given to problems in the application of new methods of mechanized welding and electroslag welding. This is the second collection of articles under the same title prepared and published by the Institute of Electromechanics, Lenin N.O. Petros (Institute of Electric Welding, Lenin Ye. O. Petrov), previously written by B.S. Petrov, Academician of the Ukrainian Academy of Sciences and winner of the Lenin Prize. There are no references.

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[illegible]

Yuda, T. I. [Candidate of Technical Sciences], and A. G. Popov, Privatnyy  
inzhener Institut elektromekhaniki imeni Ye. O. Patina (Privatnyy  
inzhener imeni Ye. O. Patna)). Introduction of Automatic and  
Semi-automatic Carbon-Dioxide Shielded Welding

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SOV/125-60-2-13/21

AUTHOR: Zvonkov, M.L.

TITLE: A Welding Head for Welding Aluminum ✓

PERIODICAL: Avtomaticheskaya svarka, 1960, Nr 2, p 88 (USSR)

ABSTRACT: At the Institut elektrosvarki im. Ye.O. Patona AN USSR (Institute of Electric Welding imeni Ye.O. Paton AS UkrSSR) a special head has been developed, the A-586, for welding aluminum, using a half-open arc on a flux layer. The head is intended for the automatic welding of butt joints 6 to 20-mm thick with one electrode of 1.2 to 4.0-mm diameter. With the aid of shift gears, the wire feed speed can be varied from 198 to 715 m/hour, and the welding speed from 13.5 to 62 m/hour. The heads can be made with left or right attachments to the automatic welding machine, or they can be self-propelled, in which case a carriage is added to the head. ✓

Card 1/1

ZVONKOV, N.A., starshiy nauchnyy sotrudnik

Clinical use of bone homotransplants preserved by refrigeration.  
Khirurgia no.8:87-93 Ag '61. (MIRA 15:5)

1. Iz Gor'kovskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - dotsent M.G. Grigor'yev)  
(BONE GRAFTING)



ZVONKOV, N.A.

Late results of the treatment of osteoarticular tuberculosis  
using lyophilized bone homografts. Khirurgiia 39 no.5:46-51  
My '63. (MIRA 17:1)

1. Iz Mukhtolovskogo sanatoriya kostno-sustavnogo tuberku-  
leza (glavnyy vrach K.N. Yastrebov).

ZVONKOV, N.A. (Gor'kiy)

Dynamics of the clinical aspects of penetrating craniocerebral  
wounds during late and remote periods of traumatic brain disease.  
Vop. neirokhir. 27 no.4:19-21 J1-Ag'63 (MIRA 17:2)

1. Nauchno-issledovatel'skiy institut travmatologii i ortopedii  
(dir. -- dotsent M.G.Grigor'yev).

ZVONKOV, N.A., starshiy nauchnyy sotrudnik (Gor'kiy 9, ul. Krinova,  
d.18, kv.1)

Treatment of compression fractures of the spine. Ortop.,  
travm. i protez. 24 no.8:64-67 Ag '63. (MIRA 17:1)

1. Iz Gor'kovskogo instituta travmatologii i ortopedii  
(dir. - dotsent M.G. Grigor'yev).

DENISOV, Yakov Andreyevich, kand. ekonom. nauk; ZVONKOV, V.F.,  
nauchnyy red.; UDAL'TSOV, O.A., red.; PETROVA, M.P., tekhn.  
red.

[International socialist division of labor] Mezhdunarodnoe  
sotsialisticheskoe razdelenie truda. Leningrad, Ob-vo po  
rasprostraneniu polit. i nauchnykh znaniy RSFSR, 1962. 60 p.

(MIRA 15:3)

(Communist countries--Division of labor)

PHASE I BOOK EXPLOITATION

SOV/6261

Kernenergie und Flotte; Artikelsammlung (Nuclear Energy and the Navy; Collection of Articles) [Berlin] Deutscher Militärverlag [1961]. 232 p. Errata slip inserted. 2000 copies printed.

Translation from the Russian of: Atomnaya energiya i flot.

Translator: Erika Steuk, Lieutenant Commander. Responsibility for German edition: Claus Gruszka, Engineer; Ed.: Klaus Krumsieg.

PURPOSE: This collection of articles is intended for officers of the army, coast guard, and merchant marine.

COVERAGE: The book, a translation from the Russian, contains 25 articles dealing with the application of nuclear weapons to naval combat operations. Chapters 19 and 25 have been supplemented with additional data for this edition. The devastating features of nuclear explosions are discussed. Attention is also given to the protection of personnel, ships, and coastal facilities against nuclear weapons, and to the present and future applications of nuclear power plants to shipping. No personalities are mentioned. There are 16 references: 10 Russian (including 3 translations from English-language sources), 1 French, 1 German, 1 English, 1 American, and 2 either English or American.

Nuclear Energy and the Navy (Cont.)

SOV/6261

19. A. Uvarov, Engineer Lieutenant Commander, Docent, Candidate of Technical Sciences. U.S. Nuclear-Powered Submarines 162
20. P. Mikhailov, Engineer Lieutenant Colonel, Candidate of Technical Sciences. Depth Charges 189
21. M. Rudnitskiy, Engineer Rear Admiral. Nuclear Power Plants in Warships 192
22. N. Solntsev, Engineer Captain (Navy), Docent, Candidate of Technical Sciences. Utilization of Nuclear Power Plants in Shipping 197
23. V. Zvonkov, Corresponding Member, Academy of Sciences USSR, Honored Scientist and Technologist RSFSR. Nuclear Power Plants in Transportation 204
24. N. Varvarov, Guards Colonel. Nuclear-Powered Flying Boat 209

Card 5/6

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ZVONKOV, Vasilii Fedosovich, kand.ekon. nauk; KUTS, M.K., nauchn.  
red.; UDAL'TSOV, O.A., red.

[Role of engineering personnel in the building of communism] Rol' inzhenernykh kadrov v stroitel'stve kommunizma. Leningrad, Ob-vo "Znanie" RSRSR, 1965. 51 p.  
(MIRA 18:10)

ZVONKOV, VASILII VASIL'EVICH.

CIA-RDP86-00513R002065710019-0"

Eksplotatsiia vodnykh putel. [Exploitation of waterways]. [Moskva, Transpechat] 1927. 180 p. CST-H

Kompleksnaia tipizatsiia tekhnicheskikh sredstv vnutrennego vodnogo transporta. [Complex typification of technical means of inland waterway transportation]. Moskva, Rechisdat; [1948].

Tekhnicheskaiia eksplotatsiia rechnogo flota. [Technical exploitation of the river fleet]. Uchebnik dlia vtuzov. Moskva, Gos. transp. izd-vo, 1937. 429 p. diags. DLC: TC745.Z9

SO: Soviet Transportation and Communications. A Bibliography. Library of Congress. Reference Department, Washington, 1952, Unclassified.



Desiat' let raboty rechnogo transporta SSSR. [Ten years of river transportation of the  
USSR]. (Vodnyi transport, 1927, v. 5, no. 11, p. 425-36).  
DLC: HE561.R8

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,  
Reference Department, Washington, 1952 Unclassified.

ZVONKOV, Vasilii Vasil'evich

Kompleksnoe osvoenie malykh rek. Complex reclamation of small rivers7. (Vodnyi transport, 1940, no. 7, p. 26-28). DLC: HE561.R8

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

ZYONKOV, Vasilii Vasil'evich

Razvitie vognogo transporta Molotovskoi oblasti. /The development of waterway transportation in the Molotov province/. Doklad na Konferentsii Akademii nauk SSSR po izucheniiu proizvoitel nykh sil Molotoyskoi obl. 28/XI 1945 g. Molotov, Molotovskoe obl. izd-vo, 1946. 24 p.

SO: Soviet Transportation and Communications. A Bibliography. Library of Congress, Reference Department, Washington, 1952, Unclassified.

Zvonkov, V. V., "Typification of Technical Media for Water Transportation." *Symposium*.  
"Problems in Increasing the Efficiency of Transportation." Academy of Sciences USSR,  
Section on Scientific Solution of Transportation Problems, Academy of Sciences  
USSR, 1949.

Magistrali blizhaishego budushchego. [Trunk lines of the near future]. (Izvestia, 1950, Sept 14)

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

ZVORYKIN, V.P. (Moskva, D-284, Begovaya ulitsa, 11, kvartira 188)

Morphological bases of the ultrasonic and locating properties  
of the dolphin. Arkh. anat., gist. 1 embr. 45 no.7:3-17 Je '63.  
(MIRA 17:4)

1. Laboratoriya tsitoarkhiktoniki (zav. - zasluzhennyy deyatel'  
nauki doktor med. nauk, prof. Ye.P. Kononova) Instituta mozga  
AMN SSSR, Moskva.

GIRAYEV, M.A.; KARPOVICH, I.A.; ZVONKOV, B.N.

Frequency dependence of the field effect in photosensitive CdS films.  
Fiz. tver. tela 6 no.7:2198-2200 J1 '64. (MIRA 17:10)

1. Gor'kovskiy gosudarstvennyy universitet.

ZVONKOV, N.A.

Outcome of homoplastic operations by the use of frozen bones  
in benign tumors and dysplasia of bones. Vop.onk. 11 no.11:  
55-62 '65. (MIRA 1961)

1. Iz Gor'kovskogo nauchno-issledovatel'skogo instituta  
travmatologii i ortopedii (direktor - dotsent M.G. Prigor'yev).



Great construction projects under communism and transportation. Moskva, Izd-vo Akademii nauk SSSR, 1952. 93 pl map. Akademiia nauk SSSR. Nauchno-populiarnaia seria. (53-15369)

HE255.Z68

ZVONKOV, V. V.

Transportation

New main transportation lines. Nauka i zhizn' 19 no. 5, '52.

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

# Transportation

Transportation contributes to the great construction projects of communism.  
Vest. AN SSSR 21 no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952. UNCLASSIFIED.

USSR/Geophysics - Canals

Jan 53

"New Ship-Going Canals of the USSR," V. V. Zvonkov, Corr-Mem of Acad Sci USSR

"Priroda" No 1, pp 7-18

Description and photographs of the White Sea-Baltic Canal imeni Stalin, Canal imeni Moscow, Volga-Don Canal imeni Lenin, etc. Historical account of early canals.

243T68

6421. Tikhonov, I. i Zvonkov, V. Osnovnoy ekonomicheskiy zakon  
sotsializma. L., Lenizdat, 1954. 112 s 20 sm. 10,000 ekz. 1 R.  
zo K. -- (55-2356) P

SO: Knizhnaya Letopis' No. 6, 1955.

Speed and pulling characteristics of diesel freighters.  
Mor. 1 rech.flot 14 no.5:17-21 My '54. (MLRA 7:7)

1. Chlen-korrespondent Akademii nauk SSSR. 2. TANIIVT.  
(Ships) (Diesel engines)

Window to the future. Tekh.mol.22 no.3:20-21 Mr '54. (MLRA 7:2)

1. Chlen-korrespondent Akademii nauk SSSR. (Technology)

~~ZVONKOV, Vasily Vasil'yevich~~; SHIMKO, K.N., redaktor; MAKRUISHINA, A.N.,  
redaktor izdatel'stva; SALAZKOV, N.P., tekhnicheskiy redaktor

[Calculations in ship traction; theory, calculations and tests]  
Sudovye tiagovye raschety; teoriia, raschety, ispytaniia, Moskva,  
Izd-vo "Rechnoi transport," 1956. 322 p. (MLRA 10:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Zvonkov)  
(Ships)



"The Application of Atomic Energy in Transportation," by V. .  
Zvonkov, Corresponding Member, Academy of Sciences USSR,  
Moscow, Promyshlenno-Ekonomicheskaya Gazeta, 21 Nov 56

[Comment: In the following discussion of construction materials for lightweight, mobile nuclear reactors designed to supply power for transportation purposes, the author suggests that materials which are effective as moderators (i.e., beryllium) and exert a shielding effect (i.e., lead) be used as heat transfer agents, thus apparently implying that the use of materials which fulfill a double function will make it possible to reduce the weight of the reactor. However, the high melting point of beryllium (1,350°) makes it rather unsuitable for use as a heat transfer agent in the elemental state unless alloying elements which lower the melting point are present.]

Zvonkov discusses general engineering problems connected with the use of nuclear power engines in transportation. He also subjects to consideration the economic aspects of the use of nuclear power in land, water, and air transportation. According to a statement made by the author, some of the information given in the article is apparently based on results of studies made at the Institute of Complex Transportation Problems, Academy of Sciences USSR. The author discusses as follows the subject of construction materials for reactors:

"The selection of the cooling agent will exert a considerable influence on the design of nuclear power installations for industrial and transportation purposes. The cooling agent may be a liquid (water or heavy water), a fused metal (sodium, lithium, beryllium, lead, or bismuth), or a gas (helium or carbon dioxide). Certain difficulties will arise in connection with the creation of nuclear power installations for transportation purposes. For instance, the creation of a reliable reactor cooled with gas or liquid metal and operating in the temperature range of 750-900°C will involve the use of heat-resistant alloys, specifically titanium alloys, and also of ceramic materials.

"The system of biological protection against radiation injuries will be of particular importance in connection with nuclear installations used in transportation. In stationary nuclear power installations this system is distinguished by its great weight and large dimensions. It is obvious that the weight and dimensions must be small when the installation is used for transportation purposes.

"Wherever radioactive decay and nuclear fission take place, care must be taken to provide protection from gamma-rays and neutron rays, which have a high activity. Gamma-radiation is most effectively absorbed by substances with a high atomic weight, while the best protection from neutron rays is provided by moderators. It seems that the best method of providing protection in nuclear power installations used for transportation purposes will be the application of complex materials containing hydrogen, for instance, of steel sheets interlined with plastic materials or of other materials with a high atomic weight."

As far as reactor fuels are concerned, Zvonkov mentions as examples of reactor construction types of heterogeneous reactor in which uranium blocks are arranged within the moderator, forming a regular lattice, and a homogeneous reactor in which the fuel consisting of uranium oxide is mixed with heavy water functioning as the moderator.

Card 1/1 Pub. 124 - 22/39

Authors : Zvonkov, V. V., Memb. Corres., Acad. of Sci., USSR

Title : Increase of speeds of transportation media

Periodical : Vest. AN SSSR 26/2, 112-115, Feb 1956

Abstract : Minutes are presented from the conference held at the Institute of Complex Transportation Problems at the Acad. of Sci. USSR (Dec 1954, 1955) concerning the increase of speeds of transportation media. The conference was held in the USSR and involved scientists from the USSR and other countries. The minutes are presented in Russian and English.

Publication : .....

Submitted : .....

ZVONKOV, Vasily Vasil'yevich; KONDRAT'YEVA, V.I., red. 1st-va; SOBOLEV,  
D.S., red. 1st-va; RYLINA, Yu.V., tekhn. red.

[Integrated water resources development in the river basins of  
the U.S.S.R.] Kompleksnoe ispol'zovanie vodnykh resursov v  
rechnykh basseynakh SSSR. Moskva, Izd-vo Akad. nauk SSSR, 1957.  
100 p. (MIRA 11:9)

1. Chlen-korrespondent Akademii nauk SSSR (for Zvonkov).  
(Water resources development)

~~EVANSKY, V.V., prof.~~

Mysteries of marine currents. Tekh. mol. 25 no.9:25 8 '57.

(MLBA 10r9)

1. Chlen-korrespondent Akademii nauk SSSR.  
(Atomic ships) (Naval architecture)

30-7-2/36

AUTHOR ZVONKOV, V.V., corresponding member of the Academy of Sciences of the U.S.S.R.

TITLE On the Problem of Utilizing the Water-Power Reserves of the World (Problemy ispol'zovaniya mirovykh vodnykh resursov. Russian)

PERIODICAL Vestnik Akademii Nauk SSSR, 1957, Vol 27, Nr 7, pp 8 - 14 (U.S.S.R.)

ABSTRACT The U.S.S.R. possesses enormous water-power reserves. In the European part of the Union 45,000 rivers exist, in the Asiatic part more than 155,000. The total length of rivers in the U.S.S.R. was determined to be 3 million km. Of the 10 largest rivers of the earth with a water-drainage area of 2 million km<sup>2</sup> 4 are in the U.S.S.R., without counting the Volga, the largest river of the European part of the Union. Until recently these enormous water-power reserves were not utilized. It was not before the realization of the first plan of electrification (GOELRO) that the utilization of the water power of the rivers was begun. In close connection with the systematic establishment of the extensive channel system developed. The new industrial plants (especially the heavy industry) need very large amounts of water; the metallurgical works alone - 2 billion m<sup>3</sup> per year. The consumption of drinking water in the U.S.S.R. amounts to 8 million m<sup>3</sup> in 24 hours. In the projection of new large hydro-electric power stations all interests of power engineering are taken into account. In a complex utilization of water-power reserves the administrative, technical and economic aspects have to be taken

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30-7-2/36

On the Problem of Utilizing the Water-Power Reserves of the World into account, since the neighboring countries of the Union are also interested in it. Experience showed that such problems arose in the water-power utilization of the Amu-Darja (interested countries: 3 republics), of the Syr-Darja (3 republics) or of the West-Duuna (Dwina) in which project are also interested 3 countries. Several member countries of the UNO will soon express their opinions on the problem of complex utilization of the water-power reserves of the earth. Quite a number of problems of topical interest are to be solved.

ASSOCIATION	Not given
PRESENTED BY	
SUBMITTED	
AVAILABLE	Library of Congress

Card 2/2



Railroads in the U.S.A. Zhel. dor. transp. 40 no.8:81-88 Ag '58.  
(MIRA 11:9)

1.Chlen-korrespondent AN SSSR.  
(United States--Railroads)

Ed.: Yu. M. Izder; Tech. Ed.: A.M. Gavrilov; Ed. and Compiler: L. D. Chernous'ko, Engineer, Leningrad.

**WARNING:** This book is intended for the general reader.

contents. The papers in this collection discuss in popular style, and on the basis of data published in the Soviet and non-Soviet press, problems of the use of atomic and hydrogen weapons in combat operations at sea. The collection also contains articles on the changing factors of a nuclear explosion and on the immediate consequences of this explosion. A large number of articles are devoted to the estimation of damage of ships and coastal objects in the introduction of nuclear power plants in naval vessels. Also included in the collection are papers dealing with the future prospects for naval use of nuclear energy, the construction of the world's first atomic icebreaker, the "Arctic" which is expected to be built in the near future, and the use of atomic energy in the Arctic regions. The collection also contains a report on the participation of the Soviet Union in the Arctic region. The collection is published in Russian and the journal briefly cites in 1973-1975 in revised and supplemented form.

**Prolov, I.: Nuclear Commander: Penetrating Radiation**

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96	Gelis, A., Engineer Colonel. Antineuclear Defense of Objects Ashore
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124	Polyakov, E., Engineer Captain. Protecting ships against radioactive contamination
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137	Roznikov, P., Candidate of Technical Sciences, Engineer-Commander. Scavenging on Ships
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156	Tyumen, J., Doctor, Candidate of Historical Sciences, Captain. Atomic Weapons and some Problems of Naval Tactics (According to Data from the Foreign Press)
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177	Kitapshin, P., Candidate of Technical Sciences, Engineer Lieutenant Colonel. Atomic Depth Bomb (According to Data from the Foreign Press)
211	Medvedtsev, N., Engineer Rear Admiral. Atomic Power Plants on Ships
217	Slutskiy, L., Doctor, Candidate of Technical Sciences, Engineer Captain. Use of Atomic Engines in Ships
225	Ivanov, I., Corresponding Member of the Academy of Sciences of the USSR. Atomic Submarine in the Field of Science and Technology of the Navy. Atom-Powered Ships
253	Baranov, S., Guards Colonel. Atomic Shipyard of the Future (According to Data from the Foreign Press)
259	Chernousova, L., Engineer Captain. The World's First Atomic submarine

PHASE I BOOK EXPLOITATION SOV/5494

Vasil'yev, Mikhail Vasil'yevich, and Sergey Zakharovich Gushcheyev  
 Reportash is XII vekai; my zapiski raskazny dvadtsati devyati  
 vosemidesyati uchentykh o nauke i tekhnike budushchego (Reports  
 from the Twenty-First Century: Stories of Twenty-Nine Soviet  
 Scientists on Science and Engineering of the Future) [Moscow]  
 Izd-vo Sovetskaya Rossiya, 1958. 243 p. 50,000 copies printed.

Ed.: V. A. Golubkova; Tech. Ed.: O. I. Kleyeva.

PURPOSE: This book is intended for the general reader.

COVERAGE: The book contains 27 articles (told reporters by  
 Soviet scientists) dealing with probable future progress in  
 physics, chemistry, electricity, metallurgy, engineering, aviation,  
 mining, medicine, biology, agriculture, zoology, transportation,  
 exploration of space, and photography. Attention is given to  
 automation, automatic underground gasification of coal, use of  
 new metals, modernization of oil fields, atomic electric stations,  
 production of metal parts by the process of explosion, explosives

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Reports From the Twenty-First (Cont.)

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in dam construction; cancer, internal longevity reserves, ultra-  
 machine diagnosis of illnesses, surgery vs. treatment by ultra-  
 sonic vibrations, mechanical heart substitutes, human body banks,  
 medical engineering, enriched fodder, super-fertilizers, arti-  
 ficial snowfalls, agriculture vs. horticulture, radiology, radio-  
 power beam vs. wire, machines doing intellectual work, 20 auto-  
 mobiles (with radio motors), artificial sun (electromag-  
 netic rays, focused above a city, which cause heated clouds  
 to shine), future ocean ships, railway dreadnoughts, future  
 of the future, moving pavements, travelers and their accom-  
 panies, electric camps, the industrialization of Siberia,  
 use of underground heat, plant cultivation on the moon,  
 antiair, and photon jet. Names of the interviewed scientists  
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Transformation of Elements — the Future of Metallurgy [I. P.  
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Miners Are Breathing Their Last [I. S. Garkusha, Director of  
 Vsesoyuzny nauchno-issledovatel'skiy institut "Podzemnyye" —  
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Problems of overall mechanization and automatic control of freight  
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N. Taaffe. Chicago, Univ. of Chicago, Dept. of Geography (1958?)  
63 p. illus., diags., maps, tables  
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FAVORIN, N.N., kand. tekhn. nauk; POPOVA, K.L., kand. tekhn. nauk;  
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"APPROVED FOR RELEASE: Thursday, September 26, 2002  
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CIA-RDP86-00513R002065710019-0  
CIA-RDP86-00513R002065710019-0"

The blue arteries of the country. Zdorov'e 8 no.4:16-18 Ap '62.

(WATER--POLLUTION)

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1. Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague. Submitted December 29, 1963. 2. Present address: Moskovskiy institut tonkoy khimicheskoy tekhnologii M.V.Lomonosova, Moscow (for Zvonkova).

APPROVED FOR RELEASE Thursday, September 26, 2002

CIA-RDP86-00513R0020065700130-0

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V Reduction of pyridine bases with formic acid. XI  
Reduction of 3,2-pyridylacrylic and 3,4-pyridylacrylic  
acid methyl esters

filtering; evap. the filtrate in vacuo, washing the crust  
with 24 cc in 56.7% with 46.7% in 56.7%

LUKES, R.; ZVONKOVA, J. N.; MIRONOV, A. F.; FERLES, M.

Reduction of pyridine bases by means of formic acid. XI. Reduction of methylbetaine of 3-(2-pyridyl)acrylic- and 3-(4-pyridyl)acrylic acids. Coll Cz chem 25 no.10:2668-2674 0 '60.

(KEAI 10:9)

1. Institut fur organische Chemie, Technische Hochschule fur Chemie, Prag.

(Pyridineacrylic acid) (Betaine) (Formic acid)  
(Methyl group)

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Using hydrochemical methods in prospecting for ore deposits  
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no.3:295-303 '61. (MIRA 15:7)  
(Budyumkan Valley--Geochemical prospecting)

ZVONKOVA, T.V.; ZVORYKIN, K.V.; KONOVALENKO, V.G.

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(Geographical research)

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KOVALEV, S.A., red.; KOSOV, B.P., red.; MARKOV, K.K.,  
red.; RYABCHIKOV, A.M., red.; SAUSHKIN, Yu.G., red.;  
SIMONOV, Yu.G., red.; KHRUSHCHEV, A.T., red.;  
BOKOVETSKIY, O.D., red.; KONOVALYUK, I.K., mladshiy red.;  
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[Soviet geography during the period of the building of  
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ORLOV, I.V.; PIOTROVSKIY, M.V.; ZVONKOVA, T.V.; LEONT'YEV, O.K.

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, (Geology, Economic)



BASHENINA, Nina Viktorovna; LEONT'YEV, Oleg Konstantinovich;  
PIOTROVSKIY, Mikhail Vladimirovich; SIMONOV, Yuriy  
Gavrilovich; VYSKREBENTSEVA, V.S.; ZARUTSKAYA, I.P.;  
Prinimali uchastiye ZORIN, L.V.; ORLOV, I.V.; ZVONKOVA,  
T.V.; FEDOROVICH, B.A.; SHATALOV, Ye.T., retsenzent;  
GLAZOVSKAYA, M.A., retsenzent; ARISTARKHOVA, L.B., re-  
tsenzent; YERMAKOV, M.S., tekhn. red.

[Methodological guide to geomorphological mapping and  
the carrying out of geomorphological surveys at scales of  
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stvo po geomorfologicheskomu kartirovaniu i proizvod-  
stvu geomorfologicheskoi s"emki v masshtabe 1:50 000 -  
1:25 000 (s legendoi). Pod red. N.V. Basheninoi. Moskva,  
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A.S., tekhn. red.

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Fizicheskaya geografiya i ee svyaz' s narodnym khoziaistvom.  
Moskva, Izd-vo "Znanie," 1961. 31 p. (Vsesoiuznoe obshchestvo  
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Geologiya i geografiya, no.8) (MIRA 14:5)  
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ZVONKOVA, T.V.

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ZVONKOVA, T.V., prof.

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(Geology, Structural)

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ZVONKOVA, Ye.N.; ZAPESCHNAYA, G.G.; SARYCHEVA, I.K.; PREEBRAZHEVSKIY,  
N.A.

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(MIRA 18:2)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V.  
Lomonosova. Submitted July 4, 1964.

MITROFANOVA, T.K.; ZVONKOVA, Ye.N.; SARYCHEVA, I.K.; IVASHCHENKO,  
S.P.; PREOBRAZHENSKIY, N.A.

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**1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni  
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**(Glycerides) (Cacao butter)**

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1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni  
Lomonosova.



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Synthesis of neutral plasmalogens. Dokl. AN SSSR 159 no.5:  
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ZVONKOVA, Ye.N.; TSETLIN, V.I.; SARYCHEVA, I.K.; PREOBRAZHENSKIY, N.A.

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1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni  
Lomonosova.

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Synthesis of the main triglycerides of linoleic acid, Dokl. AN SSSR  
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1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova.  
Predstavleno akad. A.N. Nesmeyanovym.  
(Linoleic acid)

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I.K.; PREOBRAZHENSKIY, N.A.

Lipides. Part 18: Synthesis of the glyceride constituents of  
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(MIRA 16:2)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni  
M.V.Lomonosova.

(Corn oil)

(Glycerides)

PORTNOY, N.D.; KONDRATOVICH, V.V.; RABKIN, D.M.; ZHONKOV, M.L.; BOVIN, A.I.;  
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Automatic welding of aluminum alloy products instead of manual arc  
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(Aluminum alloys--Welding)

**ZVONKOV, N.A.,** starshiy nauchnyy sotrudnik (Gor'kiy 9, ul. Krinova, d.18,kv.1)

Morphological characteristics of the changes during homoplasty  
with refrigeration-preserved bone; experimental research. Ortop.  
travm. i protez. 24 no.2:3-9 F'63. (MIRA 16:10)

1. Iz Gor'kovskogo instituta travmatologii i ortopedii (dir.  
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(BONE GRAFTING)

ZVONKOV, N.A.

Results of frozen bone homoplasty in the treatment of pseudarthrosis,  
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My '64. (MIRA 18:2)

1. Gor'kovskiy nauchno-issledovatel'skiy institut travmatologii i  
ortopedii (dir.-dotsent M.G. Grigor'yev).

Side effects of penicillin. Vop. neirokhir. 21 no.3:50-52 My-Je '57.  
(MLPA 10:10)  
1. Gor'kovskiy institut vosstanovitel'noy khirurgii, travmatologii  
i ortopedii.  
(PENICILLIN, inj. eff.  
case reports)



ZVONKOV, N.A.

Use of radioactive indicators in studies on phosphorus metabolism  
in the bones following plastic surgery with frozen homologous  
grafts. Ortop., travm.i protea. 21 no.1:9-14 Ja '60.

(MIRA 13:12)

(BONE GRAFTING) (PHOSPHORUS METABOLISM)

ZVONKOV, N.A.; ALAKSIEVA, A.I.

Some comments on the therapy of obliterating endarteritis. Vest.  
Khir. 84 no.6:107-108 Je '60. (MIRA 13:12)  
(ARTERIES—DISEASES)

ZVONKOV, N.A., starshiy nauchnyy sotrudnik (Gor'kiy, 9, ul. Krinova, d.18)

Clinical and experimental homotransplantation of bones preserved  
by means of refrigeration. Ortop., travm. i protez. 22 no.4:16-22  
Ap '61. (MIRA 14:11)

1. Iz Gor'kovskogo nauchno-issledovatel'skogo instituta travma-  
tologii i ortopedii (dir. - dotsent M.G. Grigor'yev).  
(BONE GRAFTING)

ANTIBIOTICS

"On the Side-Effects of Penicillin," by N.A. Zvonkov, Gor'kiy Institute of Rehabilitation Surgery, Traumatology, and Orthopedics, Voprosy Neyrokhirurgii, No 3, May-June 1957, pp 50-52

The article concurs in the opinion of many scientists that the indiscriminate use of antibiotics produces the following side-effects: Urticaria, dermatitis, serum diseases, hematuria, high fever, thrombophlebitis and may also affect the central and peripheral nervous system.

The author himself observed complications in the central nervous system, which apparently is often very sensitive to antibiotics when introduced into the subarachnoid region.

While using penicillin prophylactically after an operation (replacing cranial defects with tantalum plate), he twice observed epileptic fits in a patient, which were directly caused by the use of penicillin. In two other cases, which he describes in detail, intralumbar administration of penicillin produced convulsions. And in yet another case, intracranial thrombosis was also attributed to penicillin by the author.

ZVONKOV, N.A., starshiy nauchnyy sotrudnik (Gor'kiy, 9, ul. Krinova, d.18, kv.1)

Some results of an experimental study and clinical observations  
in homoplasty with frozen bone. Nov.khir.arkh. no.6:63-69 H-D  
'58. (MIRA 12:3)

1. Gor'kovskiy nauchno-issledovatel'skiy institut ortopedii i trav-  
matologii (nauchnyy rukovoditel' - prof. I.L. TSimkhes).  
(BONE CRAFTING)

Important national economy problem. NTO 2 no.8:36 Ag '60.  
(MIRA 13:10)

1. Chlen-korrespondent AN SSSR.  
(Water resources development)

ZVONKOV, Vasilii Fedosovich

[Advances in industrial relations during the period of the large-scale building of communism] Sovershenstvovanie proizvodstvennykh otnoshenii v period razvernutoho stroitel'stva kommunizma. Leningrad, Ob-vo po raspr. polit. i nauchn. znanii RSFSR, Leningr. otd-nie, 1960. 57 p. (MIRA 14:8)

(Industrial management)

GRIGOROVSKIY, Vasilii Yefimovich; ZVONKOV, Vasilii Fedosovich; VASIL'YEV,  
A.V., red.; TIKHONOVA, I.M., tekhn.red.

[Development of production rates on collective farms] Razvitie  
proizvodstvennykh otnoshenii v kolkhosakh. Leningrad, Lenizdat,  
1959. 89 p. (MIRA 13:5)

(Collective farms)



SMIRNOV, Vasilii Filippovich; ZVONKOV, V.F., nauchnyy red.; ARKHAROVA,  
V.G., red.; TIKHONOVA, I.M., tekhn.red.

[Our great concern; growth of the material well-being of the  
working class during the fifth five-year plan; based on data  
from Leningrad enterprises] Velikaia zabota; rost material'nogo  
blagosostoianiiia rabochego klassa v gody piatoi piatiletki (na  
materialakh leningradskikh predpriatii). - Lenizdat, 1958. 129 p.  
(MIRA 12:3)

(Russia--Economic conditions)

Издательство наук УССР, Киев, Институт электротехники имени академика В.О. Стрелова  
Техническое сочинение с переводом с английского, вып. 2 (Introduction of New Welding Method in Industry) Collection of Articles, No. 2) Kiev, Gos. izdat-e tekhn. lit-ry Ukrainy No. 338, 1959. 194 p. Russian also inserted. 5,000 copies printed.

M.: V. Karbush; Tech. M.: S. Mitusovich.

**REMARK:** This book is intended for workers in the printing industry.

**NOTES.** The book contains a discussion of welding techniques and problems by groups of scientists and welders. Much attention is given to problems in the application of new methods of mechanized welding and electroslag welding. This is the second collection of articles under the same title prepared and published by the Institute of Welding, Leningrad V.G. Ponomarev, Academy of Electric Welding (Leningrad V.G. Ponomarev). The preface is written by B.V. Kuznetsov, Academician of the Ukrainian Academy of Sciences and Director of the Lenin Prize. There are no references.

[illegible]

Assistant, A. A. Potkina (Candidate of Technical Sciences; Institut elektromekhanicheskoi fiziki, Moscow); V. A. Potkina (Electric Welding Institute Inst. L. O. Potkina); and  
 Dr. P. P. Zaborin (Chief Engineer; Dneproavtomat'nyi zavod (Dneproavtomobilnyi zavod)). Automatic Welding in Shipbuilding. 129

[illegible]

Subs. V. I. [Candidate of Technical Sciences], and A. G. Popov, Senior Engineer; Institut elektrovarkh izumi Ye. O. Patona [Electric and Automatic Carbon-Fluorine Shifting Works]. Introduction of Atomic and

[illegible]

197

[illegible]

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SOV/125-60-2-13/21

AUTHOR: Zvonkov, M.L.

TITLE: A Welding Head for Welding Aluminum ✓

PERIODICAL: Avtomaticheskaya svarka, 1960, Nr 2, p 88 (USSR)

ABSTRACT: At the Institut elektrosvarki im. Ye.O. Patona AN USSR (Institute of Electric Welding imeni Ye.O. Paton AS UkrSSR) a special head has been developed, the A-586, for welding aluminum, using a half-open arc on a flux layer. The head is intended for the automatic welding of butt joints 6 to 20-mm thick with one electrode of 1.2 to 4.0-mm diameter. With the aid of shift gears, the wire feed speed can be varied from 198 to 715 m/hour, and the welding speed from 13.5 to 62 m/hour. The heads can be made with left or right attachments to the automatic welding machine, or they can be self-propelled, in which case a carriage is added to the head. ✓

Card 1/1

ZVONKOV, N.A., starshiy nauchnyy sotrudnik

Clinical use of bone homotransplants preserved by refrigeration.  
Khirurgia no.8:87-93 Ag '61. (MIRA 15:5)

1. Iz Gor'kovskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - dotsent M.G. Grigor'yev)  
(BONE GRAFTING)

ZVONKOV, N.A.

Late results of the treatment of osteoarticular tuberculosis  
using lyophilized bone homografts. Khirurgiia 39 no.5:46-51  
My '63. (MIRA 17:1)

1. Iz Mukhtolovskogo sanatoriya kostno-sustavnogo tuberku-  
leza (glavnyy vrach K.N. Yastrebov).

ZVONKOV, N.A. (Gor'kiy)

Dynamics of the clinical aspects of penetrating craniocerebral  
wounds during late and remote periods of traumatic brain disease.  
Vop. neirokhir. 27 no.4:19-21 J1-Ag'63 (MIRA 17:2)

1. Nauchno-issledovatel'skiy institut travmatologii i ortopedii  
(dir. -- dotsent M.G.Grigor'yev).

ZVONKOV, N.A., starshiy nauchnyy sotrudnik (Gor'kiy 9, ul. Krinova,  
d.18, kv.1)

Treatment of compression fractures of the spine. Ortop.,  
travm. i protez. 24 no.8:64-67 Ag '63. (MIRA 17:1)

1. Iz Gor'kovskogo instituta travmatologii i ortopedii  
(dir. - dotsent M.G. Grigor'yev).

DENISOV, Yakov Andreyevich, kand. ekonom. nauk; ZVONKOV, V.F.,  
nauchnyy red.; UDAL'TSOV, O.A., red.; PETROVA, M.P., tekhn.  
red.

[International socialist division of labor] Mezhdunarodnoe  
sotsialisticheskoe razdelenie truda. Leningrad, Ob-vo po  
rasprostraneniю polit. i nauchnykh znaniy RSFSR, 1962. 60 p.

(MIRA 15:3)

(Communist countries--Division of labor)



PHASE I BOOK EXPLOITATION

SOV/6261

Kernenergie und Flotte; Artikelsammlung (Nuclear Energy and the Navy; Collection of Articles) [Berlin] Deutscher Militärverlag [1961]. 232 p. Errata slip inserted. 2000 copies printed.

Translation from the Russian of: Atomnaya energiya i flot.

Translator: Erika Steuk, Lieutenant Commander. Responsibility for German edition: Claus Gruszka, Engineer; Ed.: Klaus Krumsieg.

PURPOSE: This collection of articles is intended for officers of the army, coast guard, and merchant marine.

COVERAGE: The book, a translation from the Russian, contains 25 articles dealing with the application of nuclear weapons to naval combat operations. Chapters 19 and 25 have been supplemented with additional data for this edition. The devastating features of nuclear explosions are discussed. Attention is also given to the protection of personnel, ships, and coastal facilities against nuclear weapons, and to the present and future applications of nuclear power plants to shipping. No personalities are mentioned. There are 16 references: 10 Russian (including 3 translations from English-language sources), 1 French, 1 German, 1 English, 1 American, and 2 either English or American.

Nuclear Energy and the Navy (Cont.)

SOV/6261

19. A. Uvarov, Engineer Lieutenant Commander, Docent, Candidate of Technical Sciences. U.S. Nuclear-Powered Submarines 162
20. P. Mikhailov, Engineer Lieutenant Colonel, Candidate of Technical Sciences. Depth Charges 189
21. M. Rudnitskiy, Engineer Rear Admiral. Nuclear Power Plants in Warships 192
22. N. Solntsev, Engineer Captain (Navy), Docent, Candidate of Technical Sciences. Utilization of Nuclear Power Plants in Shipping 197
23. V. Zvonkov, Corresponding Member, Academy of Sciences USSR, Honored Scientist and Technologist RSFSR. Nuclear Power Plants in Transportation 204
24. N. Varvarov, Guards Colonel. Nuclear-Powered Flying Boat 209

Card 5/6

2/2

ZVONKOV, Vasilii Fedosovich, kand.ekon. nauk; KUTS, M.K., nauchn.  
red.; UDAL'TSOV, O.A., red.

[Role of engineering personnel in the building of communism] Rol' inzhenernykh kadrov v stroitel'stve kommunizma. Leningrad, Ob-vo "Znanie" RSRSR, 1965. 51 p.  
(MIRA 18:10)

ZVONKOV, VASILII VASIL'EVICH.

CIA-RDP86-00513R002065710019-0"

Eksploatatsiia vodnykh putel. [Exploitation of waterways]. [Moskva, Transpechat] 1927. 180 p. CST-H

Kompleksnaia tipizatsiia tekhnicheskikh sredstv vnutrennogo vodnogo transporta. [Complex typification of technical means of inland waterway transportation]. Moskva, Rechisdat; [1948].

Tekhnicheskaiia eksploatatsiia rechnogo flota. [Technical exploitation of the river fleet]. Uchebnik dlia vtuzov. Moskva, Gos. transp. izd-vo, 1937. 429 p. diags. DLC: TC745.Z9

SO: Soviet Transportation and Communications. A Bibliography. Library of Congress. Reference Department, Washington, 1952, Unclassified.

ZJONKOV, VASIL' VASIL' VITICH

Desiat' let raboty rechnogo transporta SSSR. [Ten years of river transportation of the USSR]. (Vodnyi transport, 1927, v. 5, no. 11, p. 425-36).  
DLC: HE561.R8

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952 Unclassified.

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Kompleksnoe osvoenie malykh rek. Complex reclamation of small rivers7. (Vodnyi transport, 1940, no. 7, p. 26-28). DLC: HE561.R8

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New main transportation lines. Nauka i zhizn' 19 no. 5, '52.

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## Transportation

Transportation contributes to the great construction projects of communism.  
Vest. AN SSSR 21 no. 2, 1952.

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USSR/Geophysics - Canals

Jan 53

"New Ship-Going Canals of the USSR," V. V. Zvonkov, Corr-Mem of Acad Sci USSR

"Priroda" No 1, pp 7-18

Description and photographs of the White Sea-Baltic Canal imeni Stalin, Canal imeni Moscow, Volga-Don Canal imeni Lenin, etc. Historical account of early canals.

243T68



6421. Tikhonov, I. i Zvonkov, V. Osnovnoy ekonomicheskiy zakon  
sotsializma. L., Lenizdat, 1954. 112 s 20 sm. 10,000 ekz. 1 R.  
zo K. -- (55-2356) P

SO: Knizhnaya Letopis' No. 6, 1955.

Speed and pulling characteristics of diesel freighters.  
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(Ships) (Diesel engines)

Window to the future. Tekh.mol.22 no.3:20-21 Mr '54. (MLRA 7:2)

1. Chlen-korrespondent Akademii nauk SSSR. (Technology)

~~ZVONKOV, Vasily Vasil'yevich~~; SHIMKO, K.N., redaktor; MAKRUISHINA, A.N.,  
redaktor izdatel'stva; SALAZKOV, N.P., tekhnicheskiy redaktor

[Calculations in ship traction; theory, calculations and tests]  
Sudovye tiagovye raschety; teoriia, raschety, ispytaniia, Moskva,  
Izd-vo "Rechnoi transport," 1956. 322 p. (MLRA 10:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Zvonkov)  
(Ships)

"The Application of Atomic Energy in Transportation," by V. .  
Zvonkov, Corresponding Member, Academy of Sciences USSR,  
Moscow, Promyshlenno-Ekonomicheskaya Gazeta, 21 Nov 56

[Comment: In the following discussion of construction materials for lightweight, mobile nuclear reactors designed to supply power for transportation purposes, the author suggests that materials which are effective as moderators (i.e., beryllium) and exert a shielding effect (i.e., lead) be used as heat transfer agents, thus apparently implying that the use of materials which fulfill a double function will make it possible to reduce the weight of the reactor. However, the high melting point of beryllium (1,350°) makes it rather unsuitable for use as a heat transfer agent in the elemental state unless alloying elements which lower the melting point are present.]

Zvonkov discusses general engineering problems connected with the use of nuclear power engines in transportation. He also subjects to consideration the economic aspects of the use of nuclear power in land, water, and air transportation. According to a statement made by the author, some of the information given in the article is apparently based on results of studies made at the Institute of Complex Transportation Problems, Academy of Sciences USSR. The author discusses as follows the subject of construction materials for reactors:

"The selection of the cooling agent will exert a considerable influence on the design of nuclear power installations for industrial and transportation purposes. The cooling agent may be a liquid (water or heavy water), a fused metal (sodium, lithium, beryllium, lead, or bismuth), or a gas (helium or carbon dioxide). Certain difficulties will arise in connection with the creation of nuclear power installations for transportation purposes. For instance, the creation of a reliable reactor cooled with gas or liquid metal and operating in the temperature range of 750-900°C will involve the use of heat-resistant alloys, specifically titanium alloys, and also of ceramic materials.

"The system of biological protection against radiation injuries will be of particular importance in connection with nuclear installations used in transportation. In stationary nuclear power installations this system is distinguished by its great weight and large dimensions. It is obvious that the weight and dimensions must be small when the installation is used for transportation purposes.

"Wherever radioactive decay and nuclear fission take place, care must be taken to provide protection from gamma-rays and neutron rays, which have a high activity. Gamma-radiation is most effectively absorbed by substances with a high atomic weight, while the best protection from neutron rays is provided by moderators. It seems that the best method of providing protection in nuclear power installations used for transportation purposes will be the application of complex materials containing hydrogen, for instance, of steel sheets interlined with plastic materials or of other materials with a high atomic weight."

As far as reactor fuels are concerned, Zvonkov mentions as examples of reactor construction types of heterogeneous reactor in which uranium blocks are arranged within the moderator, forming a regular lattice, and a homogeneous reactor in which the fuel consisting of uranium oxide is mixed with heavy water functioning as the moderator.

Card 1/1 Pub. 124 - 22/39

Authors : Zvonkov, V. V., Memb. Corres., Acad. of Sci., USSR

Title : Increase of speeds of transportation media

Periodical : Vest. AN SSSR 26/2, 112-115, Feb 1956

Abstract : Minutes are presented from the conference held at the Institute of Complex Transportation Problems at the Acad. of Sci. USSR (Dec. 14-15, 1955) on the subject of "Increase of speeds of transportation media".

Publication : .....

Submitted : .....



ZVONKOV, Vasily Vasil'yevich; KONDRAT'YEVA, V.I., red. 1st-va; SOBOLEV,  
D.S., red. 1st-va; RYLINA, Yu.V., tekhn. red.

[Integrated water resources development in the river basins of  
the U.S.S.R.] Kompleksnoe ispol'zovanie vodnykh resursov v  
rechnykh basseynakh SSSR. Moskva, Izd-vo Akad. nauk SSSR, 1957.  
100 p. (MIRA 11:9)

1. Chlen-korrespondent Akademii nauk SSSR (for Zvonkov).  
(Water resources development)

~~EVANSKY, V.V., prof.~~

Mysteries of marine currents. Tekh. mol. 25 no.9:25 8 '57.

(MLBA 10r9)

1. Chlen-korrespondent Akademii nauk SSSR.  
(Atomic ships) (Naval architecture)

30-7-2/36

AUTHOR ZVONKOV, V.V., corresponding member of the Academy of Sciences of the U.S.S.R.

TITLE On the Problem of Utilizing the Water-Power Reserves of the World  
(Problemy ispol'zovaniya mirovykh vodnykh resursov. Russian)

PERIODICAL Vestnik Akademii Nauk SSSR, 1957, Vol 27, Nr 7, pp 8 - 14 (U.S.S.R.)

ABSTRACT The U.S.S.R. possesses enormous water-power reserves. In the European part of the Union 45,000 rivers exist, in the Asiatic part more than 155,000. The total length of rivers in the U.S.S.R. was determined to be 3 million km. Of the 10 largest rivers of the earth with a water-drainage area of 2 million km<sup>2</sup> 4 are in the U.S.S.R., without counting the Volga, the largest river of the European part of the Union. Until recently these enormous water-power reserves were not utilized. It was not before the realization of the first plan of electrification (GOELRO) that the utilization of the water power of the rivers was begun. In close connection with the systematic establishment of the extensive channel system developed. The new industrial plants (especially the heavy industry) need very large amounts of water; the metallurgical works alone - 2 billion m<sup>3</sup> per year. The consumption of drinking water in the U.S.S.R. amounts to 8 million m<sup>3</sup> in 24 hours. In the projection of new large hydro-electric power stations all interests of power engineering are taken into account. In a complex utilization of water-power reserves the administrative, technical and economic aspects have to be taken

Card 1/2

30-7-2/36

On the Problem of Utilizing the Water-Power Reserves of the World into account, since the neighboring countries of the Union are also interested in it. Experience showed that such problems arose in the water-power utilization of the Amu-Darja (interested countries: 3 republics), of the Syr-Darja (3 republics) or of the West-Duuna (Dwina) in which project are also interested 3 countries. Several member countries of the UNO will soon express their opinions on the problem of complex utilization of the water-power reserves of the earth. Quite a number of problems of topical interest are to be solved.

ASSOCIATION	Not given
PRESENTED BY	
SUBMITTED	
AVAILABLE	Library of Congress

Card 2/2

Railroads in the U.S.A. Zhel. dor. transp. 40 no.8:81-88 Ag '58.  
(MIRA 11:9)

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(United States--Railroads)

Atkarskaya, I. I., shortik stary (Atomic Energy and the Navy) Collection of Articles) Moscow, Voenizdat, 1959. 232 p. (Series: Nauchno-populyarnaya biblioteka) Number of copies printed not given.

M. I. N. M. M. M. M. M. A. N. Gavrilov; Z. I. and Compiler: L. R. Chernous'ko, Engineer, Captain.

NOTE: This book is intended for the general reader.

CONTENTS: The papers in this collection discuss in popular style, and on the basis of data published in the Soviet and non-Soviet press, problems of the use of atomic and hydrogen weapons in combat operations at sea. The collection includes reports on the damaging factors of a nuclear explosion and on the impact power of this weapon of mass destruction. A number of articles are devoted to the antinuclear defense of ships and of shore objects, and to the introduction of nuclear power plants in naval vessels. Also included is the collection of nuclear power plants in the world's first atomic submarine, the "Lenin", which is expected to play an important part in the future conquest of the Arctic regions. The collection also contains papers published in the journal Sovetskii Flot in 1955-1958, in revised and supplemented form.

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AVIATION: Library of Congress (07/67.039)

PHASE I BOOK EXPLOITATION SOV/5494

Vasil'yev, Mikhail Vasil'yevich, and Sergey Zakharovich Gushcheyev  
 Reportish is XII vekai; my zapiski raskazny dvadtsati devyati  
 vostochnykh uchenykh o nauke i tekhnike budushchego (Reports  
 from the Twenty-First Century: Stories of Twenty-Nine Soviet  
 Scientists on Science and Engineering of the Future) [Moscow]  
 Izd-vo Sovetskaya Rossiya, 1958. 243 p. 50,000 copies printed.

Ed.: V. A. Golubkova; Tech. Ed.: O. I. Kleyeva.

PURPOSE: This book is intended for the general reader.

COVERAGE: The book contains 27 articles (told reporters by  
 Soviet scientists) dealing with probable future progress in  
 physics, chemistry, electricity, metallurgy, engineering, aviation,  
 mining, medicine, biology, agriculture, zoology, transportation,  
 exploration of space, and photography. Attention is given to  
 automation, automatic underground gasification of coal, use of  
 new metals, modernization of oil fields, atomic electric stations,  
 production of metal parts by the process of explosion, explosives

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Reports From the Twenty-First (Cont.)

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in dam construction; cancer, internal longevity reserves, ultra-  
 machine diagnosis of illnesses, surgery vs. treatment by ultra-  
 sonic vibrations, mechanical heart substitutes, human body banks,  
 medical engineering, enriched fodder, super-fertilizers, arti-  
 ficial snowfalls, agriculture vs. horticulture, radiology, radio-  
 power beam vs. wire, machines doing intellectual work, 20 auto-  
 mobiles (with radio motors), artificial sun (electromag-  
 netic rays, focused above a city, which cause heated clouds  
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 of the future, moving pavements, travelers and their accom-  
 panies, electric camps, the industrialization of Siberia,  
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[Control of surface and underground water resources and their utili-  
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(Hydrology)

ZVONKOV, V.V. (Moskva); OBERMEYSTER, A.M. (Moskva); SMIRNOV, Ye.V. (Moskva)

Problems of overall mechanization and automatic control of freight  
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N. Taaffe. Chicago, Univ. of Chicago, Dept. of Geography (1956?)  
63 p. illus., diags., maps, tables  
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Issledovanie i kompleksnoe ispol'zovanie vodnykh resursov.  
Moskva, 1960. 227 p. (MIRA 13:12)

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2. Chlen-korrespondent AN SSSR (for Zvonkov).  
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GONCHAROVA, N.Ya.; SYSUYEV, G.B.; ZVONKOV, V.V., otv.  
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POKROVSKIY, Georgiy Iosifovich; MORALEVICH, Yuriy Aleksandrovich;  
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ZVONKOV, V.V.

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V Reduction of pyridine bases with formic acid. XI  
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filtering; evap. the filtrate in vacuo, washing the crust  
with 24 cc in 56-71 with 46-50 cc in 56-71

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